

# Notice of Allowability

Application No.

09/682,365

Examiner

Michael P. Stafira

Applicant(s)

POTYRAILO ET AL.

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*AW*

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 3/2/04.
2. ☒ The allowed claim(s) is/are 1-10, 12-49 and 51-85.
3. ☒ The drawings filed on 16 July 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Michael P. Stafira*  
Michael P. Stafira  
Primary Examiner  
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## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 1-10,12-49,51-85 are allowed over the prior art of record.
2. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art fails to disclose or make obvious an apparatus for *in situ* monitoring of molten polycarbonate polymer and/or oligomer having a data analysis system, wherein said data analysis system correlates absorbance to at least one predetermined reaction component in said molten polycarbonate polymer and/or oligomer sample to provide real-time monitoring of the composition of said polycarbonate during production, and in combination with the other recited limitations of claim 1. Claims 2-10, 12-26 are allowed by the virtue of dependency on the allowed claim 1.

Regarding claim 27, the prior art fails to disclose or make obvious an apparatus for *in situ* monitoring of molten polycarbonate polymer and/or oligomer and correlating the UV/visible light absorbed by the irradiated molten sample to levels of at least one reaction component of interest in said molten polycarbonate polymer and/or oligomer sample to provide real-time monitoring of the composition of said polycarbonate during production, and in combination with the other recited limitations of claim 27. Claims 28-53 are allowed by the virtue of dependency on the allowed claim 27.

Regarding claims 54-56, the prior art fails to disclose or make obvious a method of real time monitoring of molten polycarbonate composition during production having the step of correlating the light absorbed by the irradiated sample to levels of fries products, branched Fries

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product, and phenolic end groups, and in combination with the other recited limitations of claim 54-56.

Regarding claim 57, the prior art fails to disclose or make obvious an apparatus for in situ monitoring of molten polycarbonate polymer and/or oligomer having a data analysis system, wherein said data analysis system correlates absorbance to at least one predetermined reaction component in said molten polycarbonate polymer and/or oligomer sample, and wherein said reaction component comprises uncapped phenolic end-groups, and in combination with the other recited limitations of claim 57.

Regarding claim 58, the prior art fails to disclose or make obvious an apparatus for in situ monitoring of molten polycarbonate polymer and/or oligomer having a data analysis system, wherein said data analysis system correlates absorbance to at least one predetermined reaction component in said molten polycarbonate polymer and/or oligomer sample, and wherein said reaction component comprises Fries products, and in combination with the other recited limitations of claim 58. Claims 59-65 are allowed by the virtue of dependency on the allowed claim 58.

Regarding claim 66, the prior art fails to disclose or make obvious an apparatus for in situ monitoring of molten polycarbonate polymer and/or oligomer having a data analysis system, wherein said data analysis system correlates absorbance to at least one predetermined reaction component in said molten polycarbonate polymer and/or oligomer sample, and wherein said monitored absorbance is correlated to Fries products and uncapped phenolic end-groups, and in combination with the other recited limitations of claim 66. Claims 67-70 are allowed by the virtue of dependency on the allowed claim 66.

Regarding claim 71, the prior art fails to disclose or make obvious a method for in situ monitoring of molten polycarbonate polymer and/or oligomer having a step of correlating the UV/visible light absorbed by the irradiated molten sample to levels of at least one reaction component of interest in said molten polycarbonate polymer and/or oligomer sample, wherein the reaction component comprises uncapped phenolic end-groups, and in combination with the other recited limitations of claim 71.

Regarding claim 72, the prior art fails to disclose or make obvious a method for in situ monitoring of molten polycarbonate polymer and/or oligomer having a step of correlating the UV/visible light absorbed by the irradiated molten sample to levels of at least one reaction component of interest in said molten polycarbonate polymer and/or oligomer sample, wherein the reaction component comprises Fries products, and in combination with the other recited limitations of claim 72. Claims 73-79 are allowed by the virtue of dependency on the allowed claim 72.

Regarding claim 80, the prior art fails to disclose or make obvious a method for in situ monitoring of molten polycarbonate polymer and/or oligomer having a step of correlating the UV/visible light absorbed by the irradiated molten sample to levels of at least one reaction component of interest in said molten polycarbonate polymer and/or oligomer sample, wherein the monitored absorbance is correlated to Fries products and uncapped phenolic end-groups, and in combination with the other recited limitations of claim 80. Claims 81-84 are allowed by the virtue of dependency on the allowed claim 80.

Regarding claim 85, the prior art fails to disclose or make obvious a method for in situ monitoring of molten polycarbonate polymer and/or oligomer having a step of correlating the

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UV/visible light absorbed by the irradiated molten sample to levels of at least one reaction component of interest in said molten polycarbonate polymer and/or oligomer sample, further comprising evaluating the monitored absorbance to determine whether any one of a set of preselected reaction components needs to be adjusted, and in combination with the other recited limitations of claim 85.

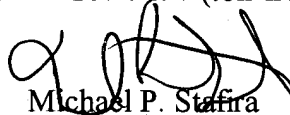
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Stafira whose telephone number is 571-272-2430. The examiner can normally be reached on 4/10 Schedule Mon.-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael P. Staffa  
Primary Examiner  
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May 19, 2004